

ABSTRACT OF THE DISCLOSURE

METHOD FOR PREPARING ANISOTROPIC SILICA AGGREGATES

5

The invention concerns a method for preparing anisotropic silica aggregates comprising the following steps: a) contacting at least one polymer with non-aggregated
10 silica particles and/or highly dispersed in an aqueous medium, with a ratio R, polymer weight to silica particle surface, ranging between 0.03 and 2 mg/m²; 2; and whereof the electrostatic value of the silica particle surface is not less than the value of the
15 charge of the silica particle surface measured in an aqueous phase without added salts at a pH not less than 7; b) consolidating the aggregates obtained at step a) either by heat treatment, or by precipitation of a mineral compound. The invention also concerns a silica
20 aggregate comprising a chaining of elementary particles whereof the number of particles ranges between 5 and 15, whereof 80 % of elementary particles are in contact with not more than 2 particles and whereof the greatest distance measurable between 2 points of the aggregate is
25 not more than 5 times the average size of one elementary particle.